



Rebecca J. Dulin
Senior Counsel

Duke Energy
1201 Main Street
Capital Center Building
Suite 1180
Columbia, SC 29201

o: 803.988.7130
f: 803.988.7123

Rebecca.Dulin@duke-energy.com

March 28, 2018

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd
Chief Clerk/Administrator
Public Service Commission of South Carolina
101 Executive Center Drive, Suite 100
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Power Plant Performance
Report
Docket No. 2006-224-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is the Monthly Power Plant Performance Report in Docket No. 2006-224-E for the month of February 2018.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803.988.7130.

Sincerely,

Rebecca J. Dulin

Enclosure

cc: Ms. Dawn Hipp, Office of Regulatory Staff
Mr. Jeffrey M. Nelson, Office of Regulatory Staff
Ms. Shannon Bowyer Hudson, Office of Regulatory Staff
Ms. Nanette Edwards, Office of Regulatory Staff
Michael Seaman-Huynh, Office of Regulatory Staff
Ms. Heather Shirley Smith, Duke Energy
Mr. Scott Elliott, Elliott & Elliott, P.A.
Mr. Garrett Stone, Brickfield, Burchette, Ritts & Stone, PC
Mr. Gary Walsh, Walsh Consulting, LLC

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

Period: February, 2018

Station	Unit	Date of Outage	Duration of Outage	Scheduled / Unscheduled	Cause of Outage	Reason Outage Occurred	Remedial Action Taken
Brunswick	1	None					
	2	02/16/2018 - 02/17/2018	35.53	Unscheduled	Repaired main generator phase 'A' no load disconnect switch	Identified a hot spot on the generator phase 'A' no load disconnect switch	Replaced disconnect contacts
Harris	1	None					
Robinson	2	None					

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2018**

Lee Energy Complex

No Outages at Baseload Units During the Month.

Richmond County Station

No Outages at Baseload Units During the Month.

Sutton Energy Complex

No Outages at Baseload Units During the Month.

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**February 2018
Brunswick Nuclear Station**

	<u>Unit 1</u>	<u>Unit 2</u>		
(A) MDC (mW)	938	932		
(B) Period Hours	672	672		
(C) Net Gen (mWh) and Capacity Factor (%)	567,700	90.06	552,559	88.23
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	55,937	8.87	9,445	1.51
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	33,117	5.29
* (G) Net mWh Not Gen due to Partial Forced Outages	6,699	1.07	31,183	4.97
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	630,336	100.00%	626,304	100.00%
(K) Equivalent Availability (%)		99.94		88.20
(L) Output Factor (%)		90.06		93.15
(M) Heat Rate (BTU/NkWh)		10,731		10,922

* Estimate
FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**February 2018
Harris Nuclear Station**

Unit 1

(A) MDC (mW)	932	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	643,338	102.72
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-17,034	-2.72
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	626,304	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		102.72
(M) Heat Rate (BTU/NkWh)		10,498

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**February 2018
Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	741	
(B) Period Hours	672	
(C) Net Gen (mWh) and Capacity Factor (%)	534,231	107.29
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	0	0.00
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-36,279	-7.29
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	497,952	100.00%
(K) Equivalent Availability (%)		100.00
(L) Output Factor (%)		107.29
(M) Heat Rate (BTU/NkWh)		10,031

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2018**

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	225	227	228	379	1,059
(B) Period Hrs	672	672	672	672	672
(C) Net Generation (mWh)	119,734	119,724	120,732	229,112	589,302
(D) Capacity Factor (%)	79.19	78.48	78.80	89.96	82.81
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	31,466	32,820	32,484	25,576	122,346
(N) Economic Dispatch: percent of Period Hrs	20.81	21.52	21.20	10.04	17.19
(O) Net mWh Possible in Period	151,200	152,544	153,216	254,688	711,648
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	79.19	78.48	78.80	89.96	82.81
(R) Heat Rate (BTU/NkWh)	9,297	9,322	9,249	3,783	7,149

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2018**

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	189	189	175	553
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	106,517	105,243	117,255	329,015
(D) Capacity Factor (%)	83.87	82.86	99.71	88.54
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	20,491	21,765	345	42,601
(N) Economic Dispatch: percent of Period Hrs	16.13	17.14	0.29	11.46
(O) Net mWh Possible in Period	127,008	127,008	117,600	371,616
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	83.87	83.73	99.71	88.85
(R) Heat Rate (BTU/NkWh)	11,137	11,029	0	7,133

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2018**

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	216	216	248	680
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	122,834	122,972	158,669	404,475
(D) Capacity Factor (%)	84.62	84.72	95.21	88.51
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	22,318	22,180	7,987	52,485
(N) Economic Dispatch: percent of Period Hrs	15.38	15.28	4.79	11.49
(O) Net mWh Possible in Period	145,152	145,152	166,656	456,960
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	85.64	85.23	95.21	89.02
(R) Heat Rate (BTU/NkWh)	11,296	11,324	0	6,873

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
February 2018**

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	224	224	271	719
(B) Period Hrs	672	672	672	672
(C) Net Generation (mWh)	118,552	118,912	138,069	375,533
(D) Capacity Factor (%)	78.76	79.00	75.82	77.72
(E) Net mWh Not Generated due to Full Scheduled Outages	0	0	0	0
(F) Scheduled Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(G) Net mWh Not Generated due to Partial Scheduled Outages	0	0	0	0
(H) Scheduled Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(I) Net mWh Not Generated due to Full Forced Outages	0	0	0	0
(J) Forced Outages: percent of Period Hrs	0.00	0.00	0.00	0.00
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	0
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.00
(M) Net mWh Not Generated due to Economic Dispatch	31,976	31,616	44,043	107,635
(N) Economic Dispatch: percent of Period Hrs	21.24	21.00	24.18	22.28
(O) Net mWh Possible in Period	150,528	150,528	182,112	483,168
(P) Equivalent Availability (%)	100.00	100.00	100.00	100.00
(Q) Output Factor (%)	78.76	79.00	75.82	77.72
(R) Heat Rate (BTU/NkWh)	11,155	11,077	0	7,029

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2018**

Mayo Station

Unit 1

(A) MDC (mW)	746
(B) Period Hrs	672
(C) Net Generation (mWh)	61,984
(D) Net mWh Possible in Period	501,312
(E) Equivalent Availability (%)	100.00
(F) Output Factor (%)	40.56
(G) Capacity Factor (%)	12.36

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Intermediate Power Plant Performance
Review Plan
February 2018**

	Roxboro Station		
	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	672	672	672
(C) Net Generation (mWh)	84,746	73,512	57,697
(D) Net mWh Possible in Period	452,256	469,056	477,792
(E) Equivalent Availability (%)	100.00	100.00	82.14
(F) Output Factor (%)	61.09	51.48	61.71
(G) Capacity Factor (%)	18.74	15.67	12.08

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**March 2017 - February 2018
Brunswick Nuclear Station**

	<u>Unit 1</u>	<u>Unit 2</u>		
(A) MDC (mW)	938	932		
(B) Period Hours	8760	8760		
(C) Net Gen (mWh) and Capacity Factor (%)	8,065,890	98.16	7,175,093	87.88
(D) Net mWh Not Gen due to Full Schedule Outages	70,647	0.86	691,653	8.47
* (E) Net mWh Not Gen due to Partial Scheduled Outages	134,482	1.64	154,918	1.90
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00	33,117	0.41
* (G) Net mWh Not Gen due to Partial Forced Outages	-54,139	-0.66	109,539	1.34
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00	0	0.00
* (I) Core Conservation	0	0.00	0	0.00
(J) Net mWh Possible in Period	8,216,880	100.00%	8,164,320	100.00%
(K) Equivalent Availability (%)		98.05		89.23
(L) Output Factor (%)		99.01		96.45
(M) Heat Rate (BTU/NkWh)		10,448		10,799

* Estimate
FOOTNOTE: D and F Include Ramping Losses

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**March 2017 - February 2018
Harris Nuclear Station**

Unit 1

(A) MDC (mW)	932	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	8,080,265	99.33
(D) Net mWh Not Gen due to Full Schedule Outages	0	0.00
* (E) Net mWh Not Gen due to Partial Scheduled Outages	98,814	1.21
(F) Net mWh Not Gen due to Full Forced Outages	146,239	1.80
* (G) Net mWh Not Gen due to Partial Forced Outages	-190,374	-2.34
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	8,134,944	100.00%
(K) Equivalent Availability (%)		96.69
(L) Output Factor (%)		101.14
(M) Heat Rate (BTU/NkWh)		10,573

**Duke Energy Progress
Base Load Power Plant Performance Review Plan**

**March 2017 - February 2018
Robinson Nuclear Station**

Unit 2

(A) MDC (mW)	741	
(B) Period Hours	8760	
(C) Net Gen (mWh) and Capacity Factor (%)	6,011,591	92.61
(D) Net mWh Not Gen due to Full Schedule Outages	678,867	10.46
* (E) Net mWh Not Gen due to Partial Scheduled Outages	22,887	0.35
(F) Net mWh Not Gen due to Full Forced Outages	0	0.00
* (G) Net mWh Not Gen due to Partial Forced Outages	-222,185	-3.42
* (H) Net mWh Not Gen due to Economic Dispatch	0	0.00
* (I) Core Conservation	0	0.00
(J) Net mWh Possible in Period	6,491,160	100.00%
(K) Equivalent Availability (%)		89.17
(L) Output Factor (%)		103.43
(M) Heat Rate (BTU/NkWh)		10,336

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Lee Energy Complex

	Unit 1A	Unit 1B	Unit 1C	Unit ST1	Block Total
(A) MDC (mW)	223	223	224	379	1,049
(B) Period Hrs	8,760	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,499,999	1,470,240	1,501,486	2,890,978	7,362,703
(D) Capacity Factor (%)	76.67	75.33	76.58	87.08	80.13
(E) Net mWh Not Generated due to Full Scheduled Outages	66,413	65,897	78,979	2,495	213,784
(F) Scheduled Outages: percent of Period Hrs	3.39	3.38	4.03	0.08	2.33
(G) Net mWh Not Generated due to Partial Scheduled Outages	264,098	255,117	257,351	139,721	916,288
(H) Scheduled Derates: percent of Period Hrs	13.50	13.07	13.13	4.21	9.97
(I) Net mWh Not Generated due to Full Forced Outages	598	2,913	3,089	48,417	55,017
(J) Forced Outages: percent of Period Hrs	0.03	0.15	0.16	1.46	0.60
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	0	3,950	3,950
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.00	0.12	0.04
(M) Net mWh Not Generated due to Economic Dispatch	125,203	157,633	119,655	234,479	636,970
(N) Economic Dispatch: percent of Period Hrs	6.40	8.08	6.10	7.06	6.93
(O) Net mWh Possible in Period	1,956,312	1,951,800	1,960,560	3,320,040	9,188,712
(P) Equivalent Availability (%)	83.05	83.35	82.62	94.14	87.06
(Q) Output Factor (%)	79.50	79.96	80.19	88.43	83.04
(R) Heat Rate (BTU/NkWh)	9,109	9,142	9,060	4,326	7,228

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Richmond County Station

	Unit 7	Unit 8	Unit ST4	Block Total
(A) MDC (mW)	189	189	175	553
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,241,726	1,219,910	1,401,126	3,862,762
(D) Capacity Factor (%)	75.00	73.68	91.40	79.74
(E) Net mWh Not Generated due to Full Scheduled Outages	128,243	134,092	121,818	384,153
(F) Scheduled Outages: percent of Period Hrs	7.75	8.10	7.95	7.93
(G) Net mWh Not Generated due to Partial Scheduled Outages	167,848	170,417	30,001	368,267
(H) Scheduled Derates: percent of Period Hrs	10.14	10.29	1.96	7.60
(I) Net mWh Not Generated due to Full Forced Outages	403	10,338	747	11,488
(J) Forced Outages: percent of Period Hrs	0.02	0.62	0.05	0.24
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	4,456	4,456
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.29	0.09
(M) Net mWh Not Generated due to Economic Dispatch	117,420	120,883	0	213,154
(N) Economic Dispatch: percent of Period Hrs	7.09	7.30	0.00	4.40
(O) Net mWh Possible in Period	1,655,640	1,655,640	1,533,000	4,844,280
(P) Equivalent Availability (%)	82.09	80.98	89.76	84.14
(Q) Output Factor (%)	81.41	80.92	99.34	86.93
(R) Heat Rate (BTU/NkWh)	11,457	11,254	0	7,237

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Richmond County Station

	Unit 9	Unit 10	Unit ST5	Block Total
(A) MDC (mW)	214	214	248	677
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,424,793	1,449,222	1,923,095	4,797,110
(D) Capacity Factor (%)	75.89	77.19	88.52	80.93
(E) Net mWh Not Generated due to Full Scheduled Outages	155,910	144,746	169,508	470,164
(F) Scheduled Outages: percent of Period Hrs	8.30	7.71	7.80	7.93
(G) Net mWh Not Generated due to Partial Scheduled Outages	188,071	186,008	7,903	381,982
(H) Scheduled Derates: percent of Period Hrs	10.02	9.91	0.36	6.44
(I) Net mWh Not Generated due to Full Forced Outages	17,999	3,667	446	22,112
(J) Forced Outages: percent of Period Hrs	0.96	0.20	0.02	0.37
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	879	879
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.04	0.01
(M) Net mWh Not Generated due to Economic Dispatch	90,699	93,830	70,649	255,178
(N) Economic Dispatch: percent of Period Hrs	4.83	5.00	3.25	4.31
(O) Net mWh Possible in Period	1,877,472	1,877,472	2,172,480	5,927,424
(P) Equivalent Availability (%)	80.69	82.16	91.77	85.24
(Q) Output Factor (%)	83.95	83.88	96.03	88.38
(R) Heat Rate (BTU/NkWh)	11,428	11,370	0	6,829

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Base Load Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Sutton Energy Complex

	Unit 1A	Unit 1B	Unit ST1	Block Total
(A) MDC (mW)	225	225	268	717
(B) Period Hrs	8,760	8,760	8,760	8,760
(C) Net Generation (mWh)	1,399,479	1,452,503	1,718,954	4,570,936
(D) Capacity Factor (%)	71.05	73.75	73.32	72.74
(E) Net mWh Not Generated due to Full Scheduled Outages	110,596	66,514	114,356	291,466
(F) Scheduled Outages: percent of Period Hrs	5.62	3.38	4.88	4.64
(G) Net mWh Not Generated due to Partial Scheduled Outages	263,677	260,435	59,446	583,558
(H) Scheduled Derates: percent of Period Hrs	13.39	13.22	2.54	9.29
(I) Net mWh Not Generated due to Full Forced Outages	26,299	32,624	4,922	63,845
(J) Forced Outages: percent of Period Hrs	1.34	1.66	0.21	1.02
(K) Net mWh Not Generated due to Partial Forced Outages	0	0	18,735	18,735
(L) Forced Derates: percent of Period Hrs	0.00	0.00	0.80	0.30
(M) Net mWh Not Generated due to Economic Dispatch	169,533	157,508	428,170	755,212
(N) Economic Dispatch: percent of Period Hrs	8.61	8.00	18.26	12.02
(O) Net mWh Possible in Period	1,969,584	1,969,584	2,344,584	6,283,752
(P) Equivalent Availability (%)	79.67	81.76	91.58	84.76
(Q) Output Factor (%)	78.15	78.62	77.47	78.04
(R) Heat Rate (BTU/NkWh)	11,387	11,302	0	7,078

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.
- (R) Includes Light Off BTU's

**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Mayo Station

Units	Unit 1
(A) MDC (mW)	746
(B) Period Hrs	8,760
(C) Net Generation (mWh)	1,559,907
(D) Net mWh Possible in Period	6,534,960
(E) Equivalent Availability (%)	86.09
(F) Output Factor (%)	50.45
(G) Capacity Factor (%)	23.87

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Intermediate Power Plant
Performance Review Plan
March, 2017 through February, 2018**

Roxboro Station

Units	Unit 2	Unit 3	Unit 4
(A) MDC (mW)	673	698	711
(B) Period Hrs	8,760	8,760	8,760
(C) Net Generation (mWh)	1,867,572	2,325,070	1,469,008
(D) Net mWh Possible in Period	5,895,480	6,114,480	6,228,360
(E) Equivalent Availability (%)	90.11	86.47	56.99
(F) Output Factor (%)	63.55	57.76	64.14
(G) Capacity Factor (%)	31.68	38.03	23.59

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Outages for 100 mW or Larger Units
February, 2018**

<u>Unit Name</u>	<u>Capacity Rating (mW)</u>	<u>Full Outage Hours</u>		<u>Total</u>
		<u>Scheduled</u>	<u>Unscheduled</u>	
Brunswick 1	938	0.00	0.00	0.00
Brunswick 2	932	0.00	35.53	35.53
Harris 1	932	0.00	0.00	0.00
Robinson 2	741	0.00	0.00	0.00

**Duke Energy Progress
Outages for 100 mW or Larger Units
February 2018**

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Asheville Steam 1	192	0.00	0.00	0.00
Asheville Steam 2	192	20.02	0.00	20.02
Asheville CT 3	185	0.00	7.00	7.00
Asheville CT 4	185	0.00	120.00	120.00
Darlington CT 12	133	0.00	0.92	0.92
Darlington CT 13	133	0.00	0.00	0.00
Lee Energy Complex CC 1A	225	0.00	0.00	0.00
Lee Energy Complex CC 1B	227	0.00	0.00	0.00
Lee Energy Complex CC 1C	228	0.00	0.00	0.00
Lee Energy Complex CC ST1	379	0.00	0.00	0.00
Mayo Steam 1	746	0.00	0.00	0.00
Richmond County CC 1	189	144.00	0.00	144.00
Richmond County CC 2	187	0.00	0.00	0.00
Richmond County CC 3	185	0.00	0.00	0.00
Richmond County CC 4	186	31.15	0.00	31.15
Richmond County CC 6	187	0.00	0.00	0.00
Richmond County CC 7	189	0.00	0.00	0.00
Richmond County CC 8	189	0.00	0.00	0.00
Richmond County CC ST4	175	0.00	0.00	0.00
Richmond County CC 9	216	0.00	0.00	0.00
Richmond County CC 10	216	0.00	0.00	0.00
Richmond County CC ST5	248	0.00	0.00	0.00

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress
Outages for 100 mW or Larger Units
February 2018**

Unit Name	Capacity Rating (mW)	Full Outage Hours		Total Outage Hours
		Scheduled	Unscheduled	
Roxboro Steam 1	380	0.00	0.00	0.00
Roxboro Steam 2	673	0.00	0.00	0.00
Roxboro Steam 3	698	0.00	0.00	0.00
Roxboro Steam 4	711	120.00	0.00	120.00
Sutton Energy Complex CC 1A	224	0.00	0.00	0.00
Sutton Energy Complex CC 1B	224	0.00	0.00	0.00
Sutton Energy Complex CC ST1	271	0.00	0.00	0.00
Wayne County CT 10	192	0.00	0.00	0.00
Wayne County CT 11	192	0.00	0.00	0.00
Wayne County CT 12	193	0.00	0.00	0.00
Wayne County CT 13	191	0.00	0.00	0.00
Wayne County CT 14	195	0.00	0.00	0.00

Notes:

- Effective January 2017, a change in capacity rating methodology could impact performance trending against historical results reported prior to January 2017.
- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.